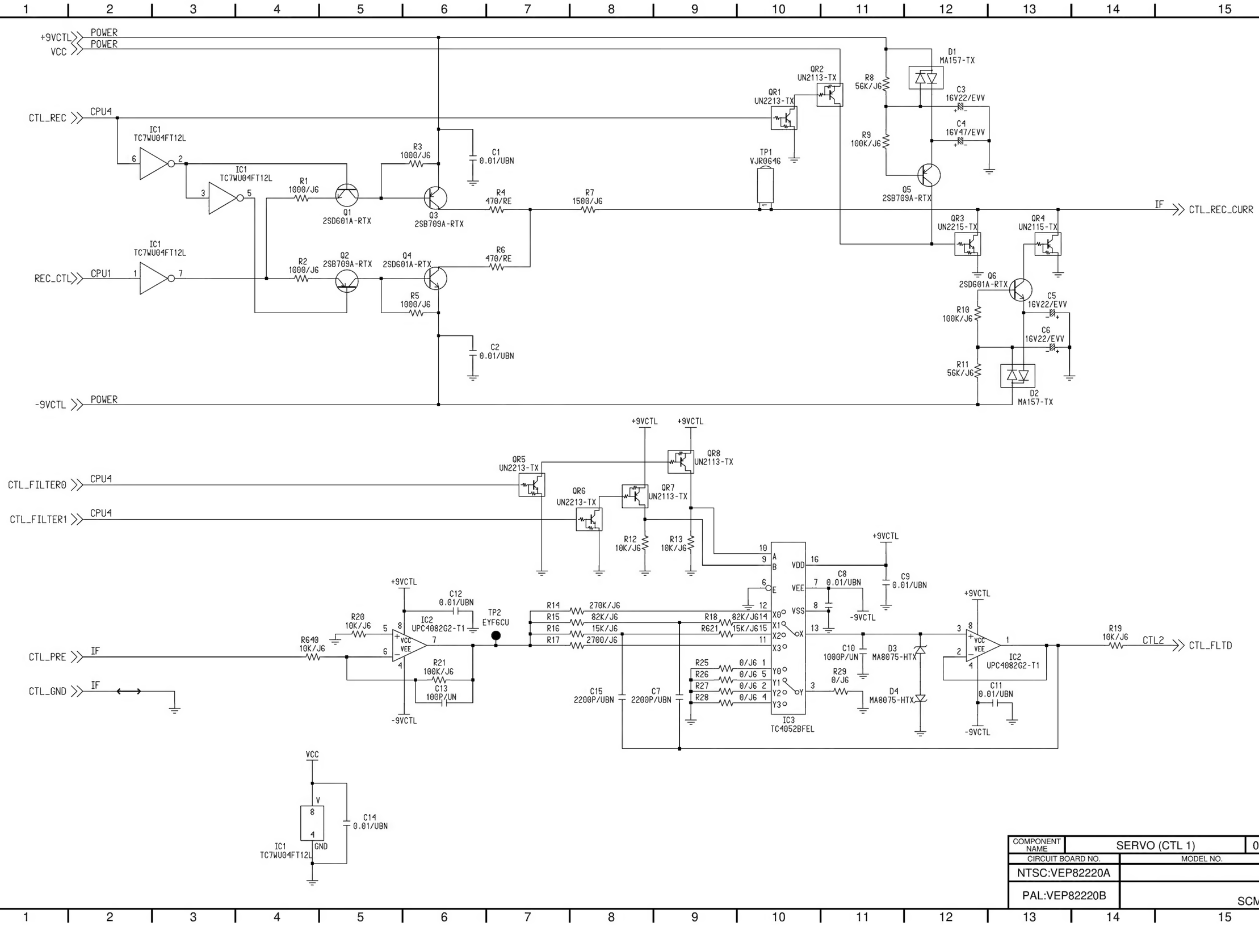
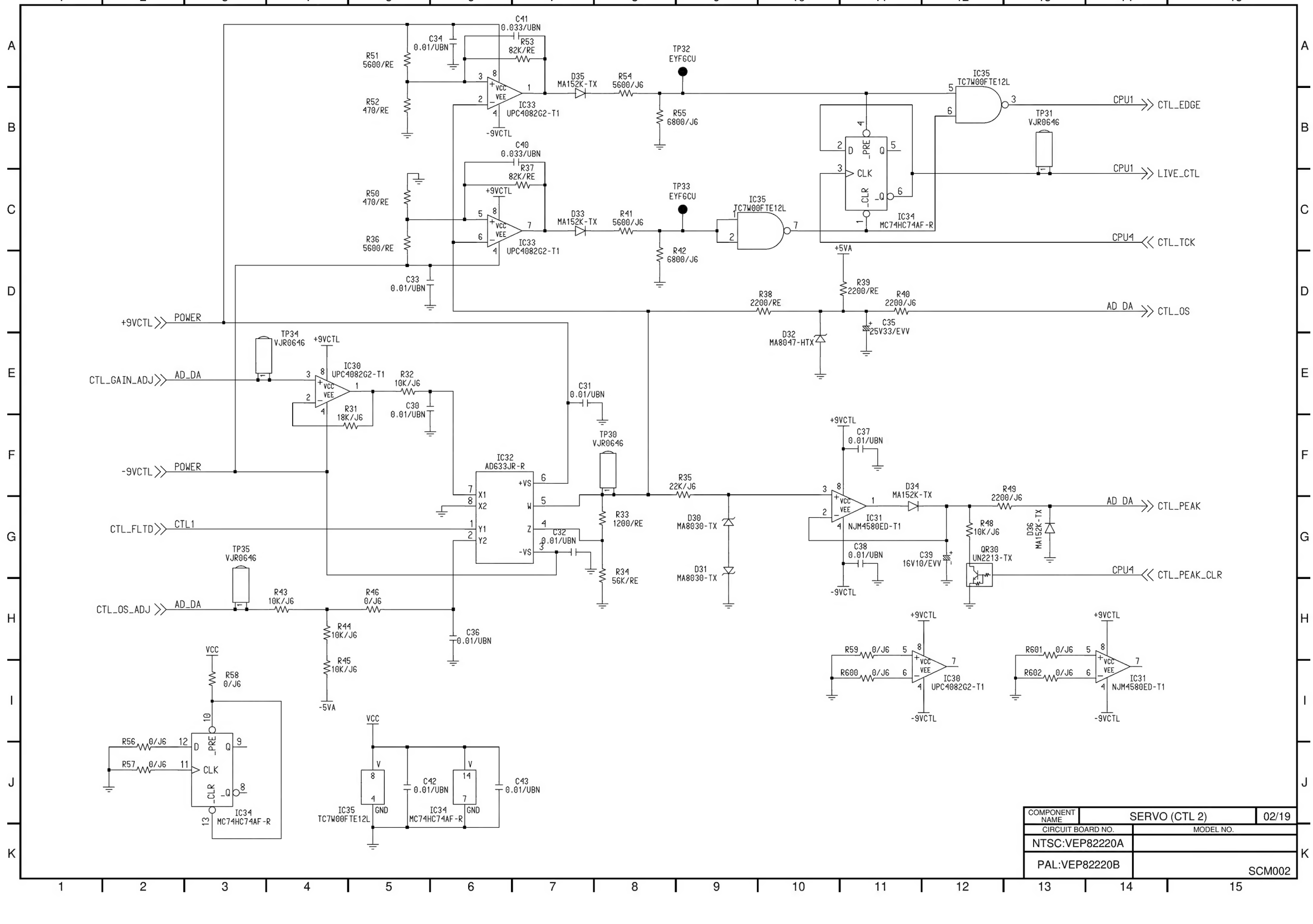
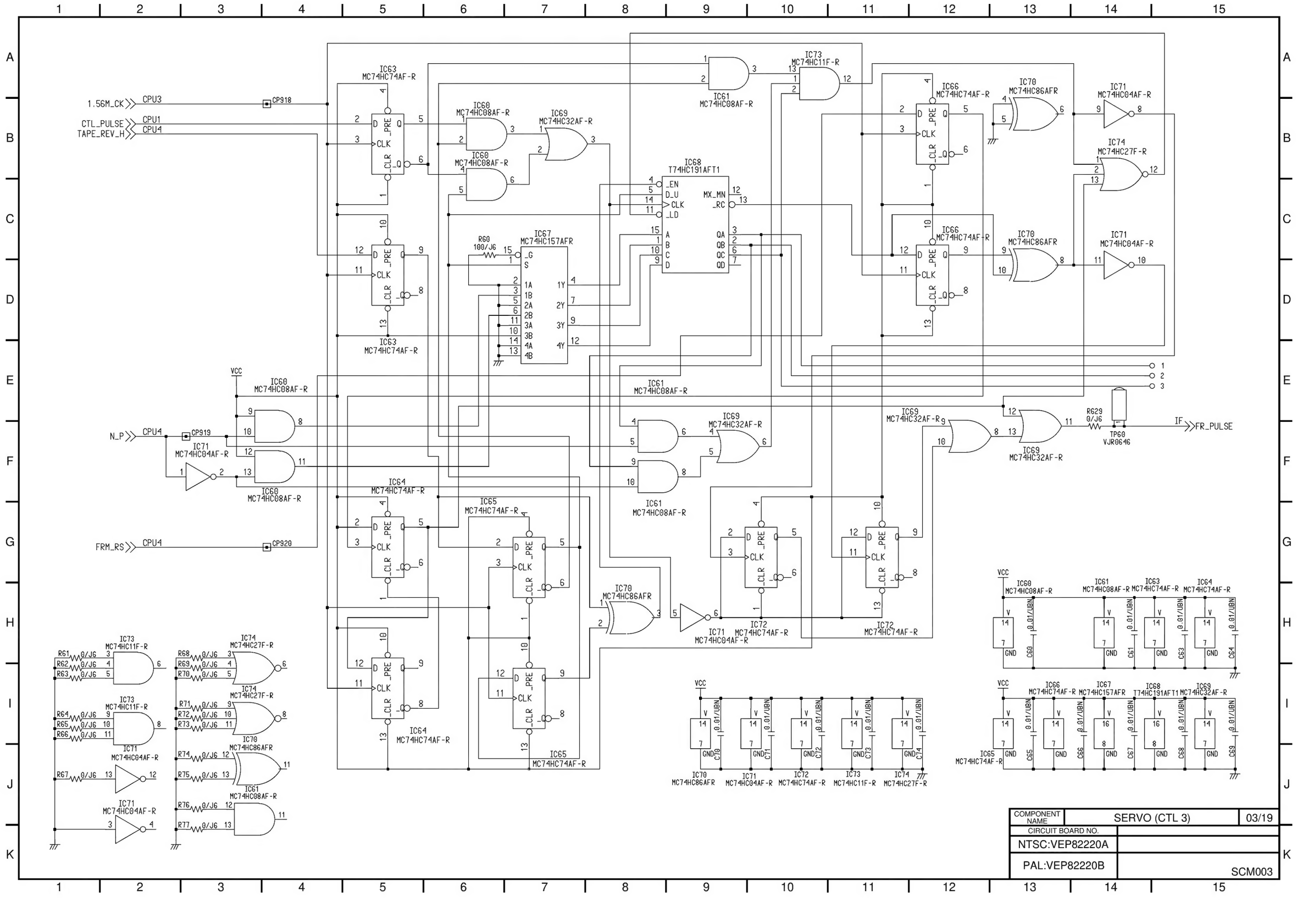


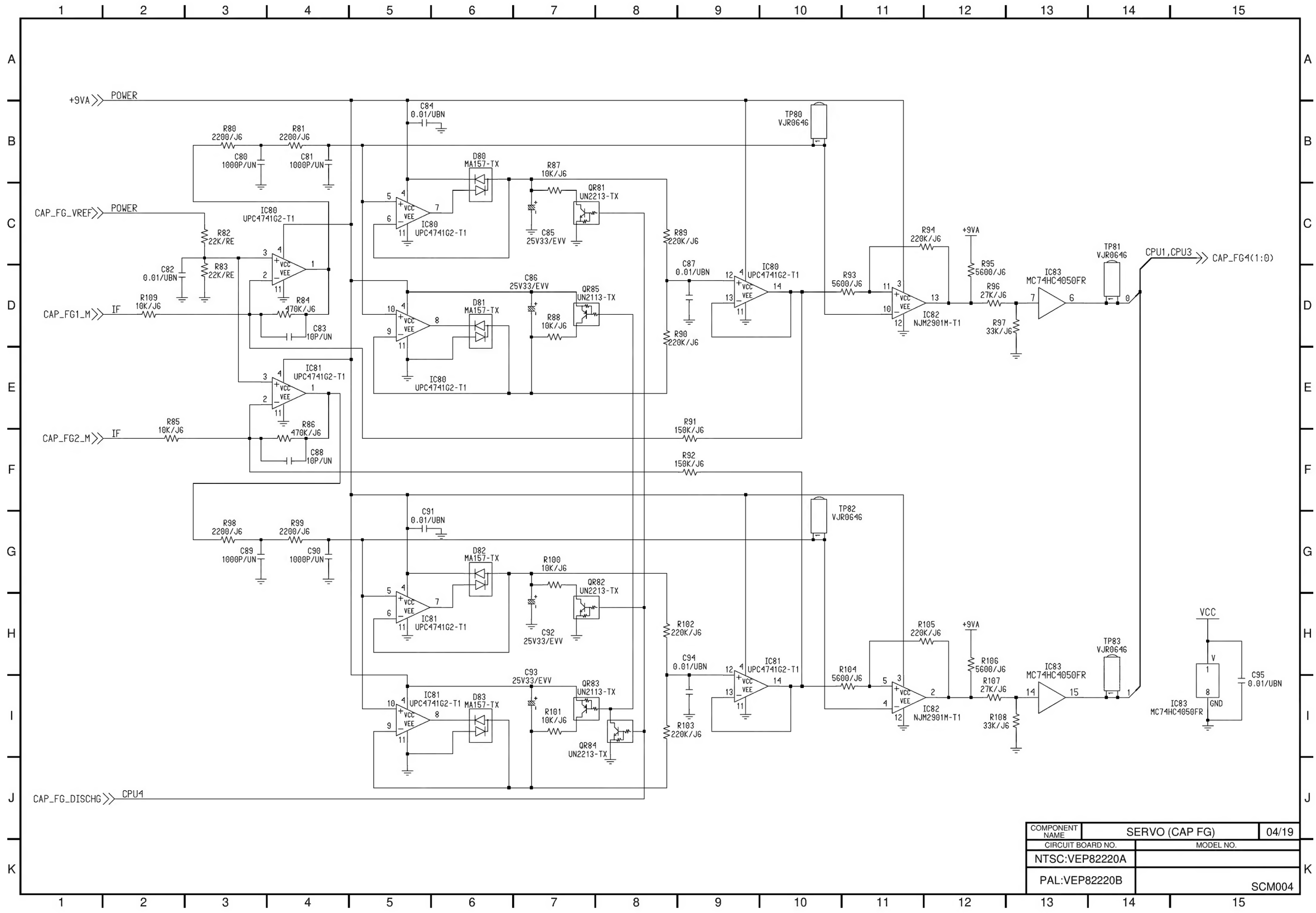
COMPONENT NAME	SERVO (CTL 1)	01/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B	SCM001	



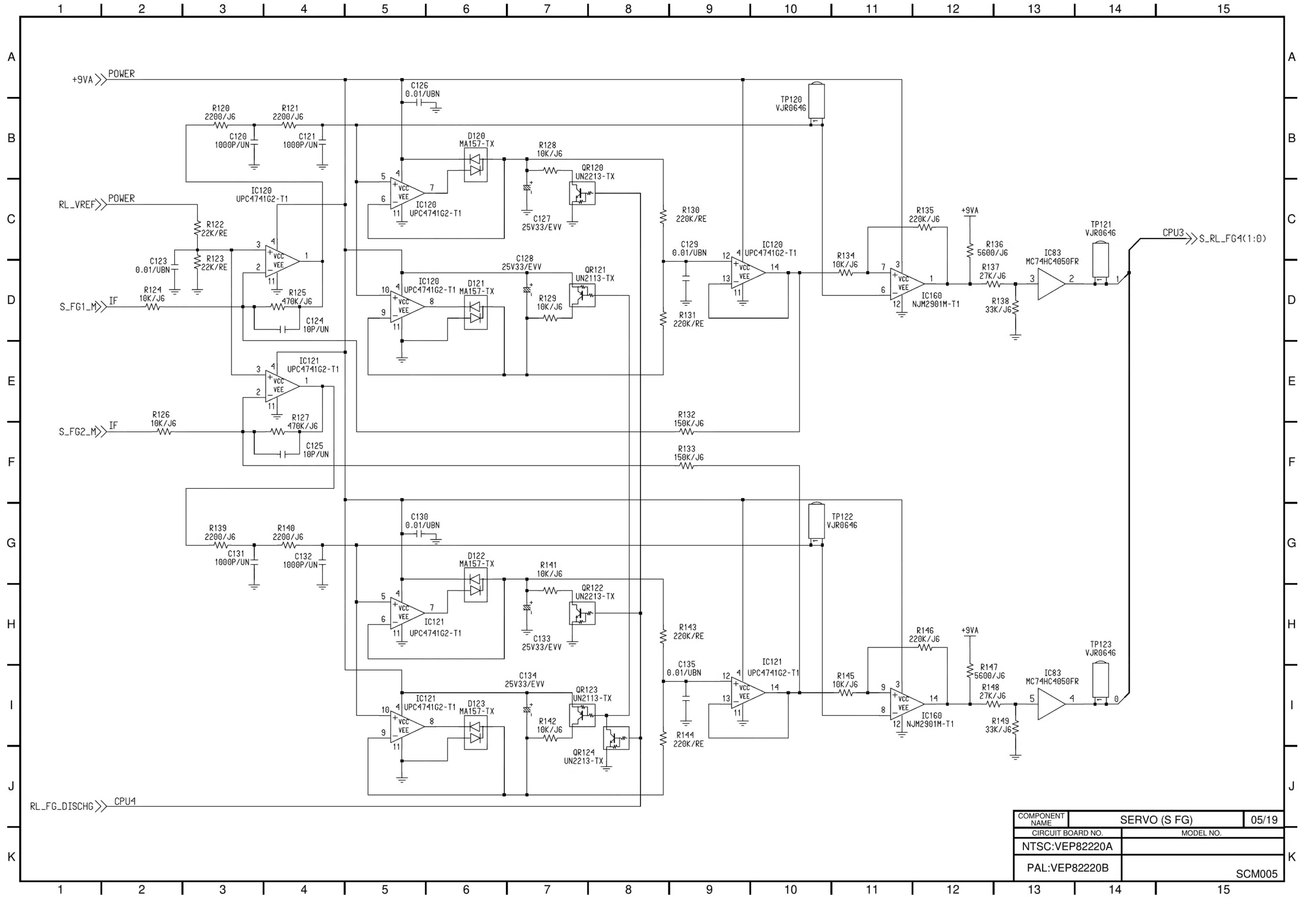
COMPONENT NAME	SERVO (CTL 2)	02/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B		SCM002

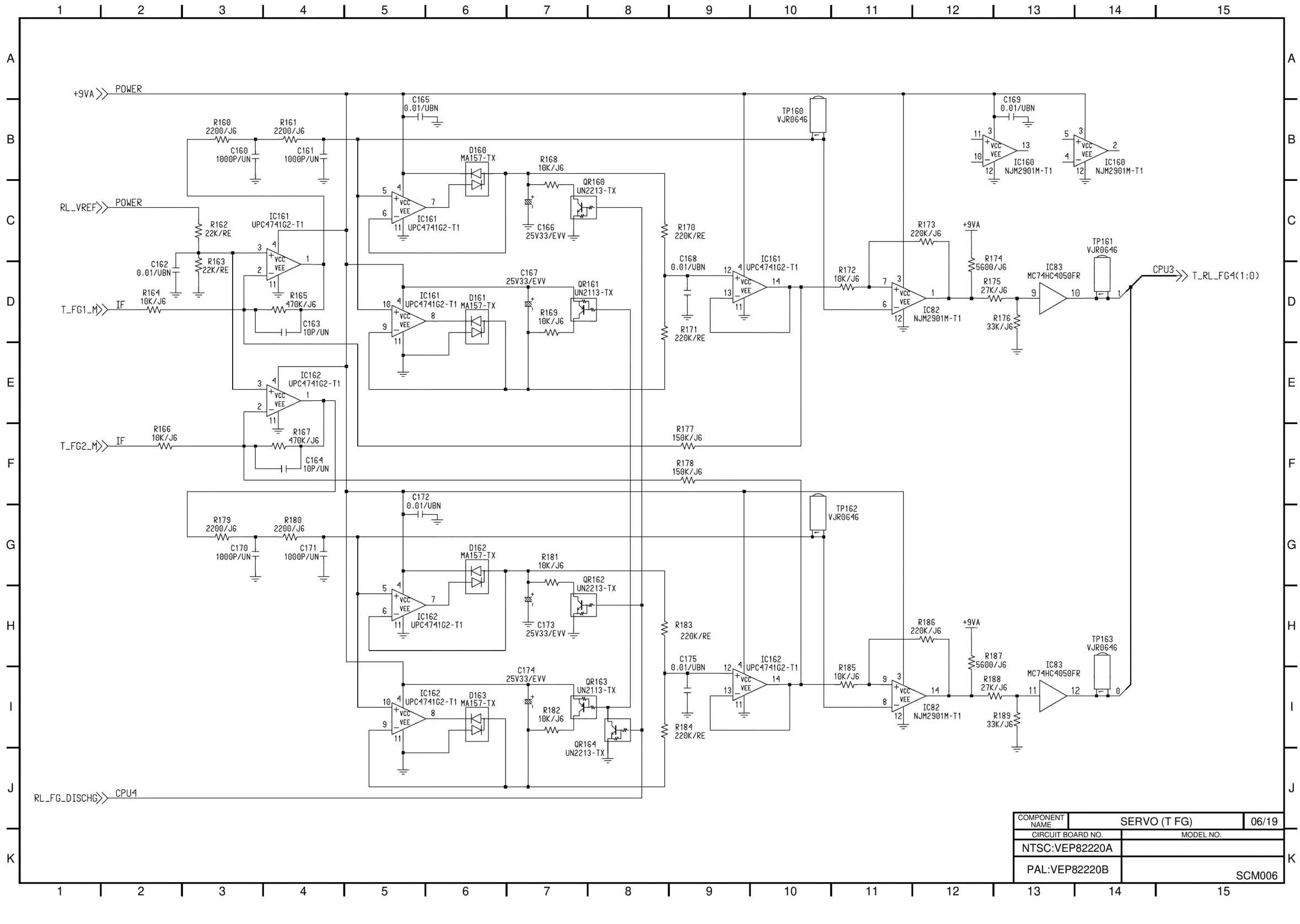


COMPONENT NAME	SERVO (CTL 3)	03/19
CIRCUIT BOARD NO.		
NTSC:VEP82220A		
PAL:VEP82220B		SCM003

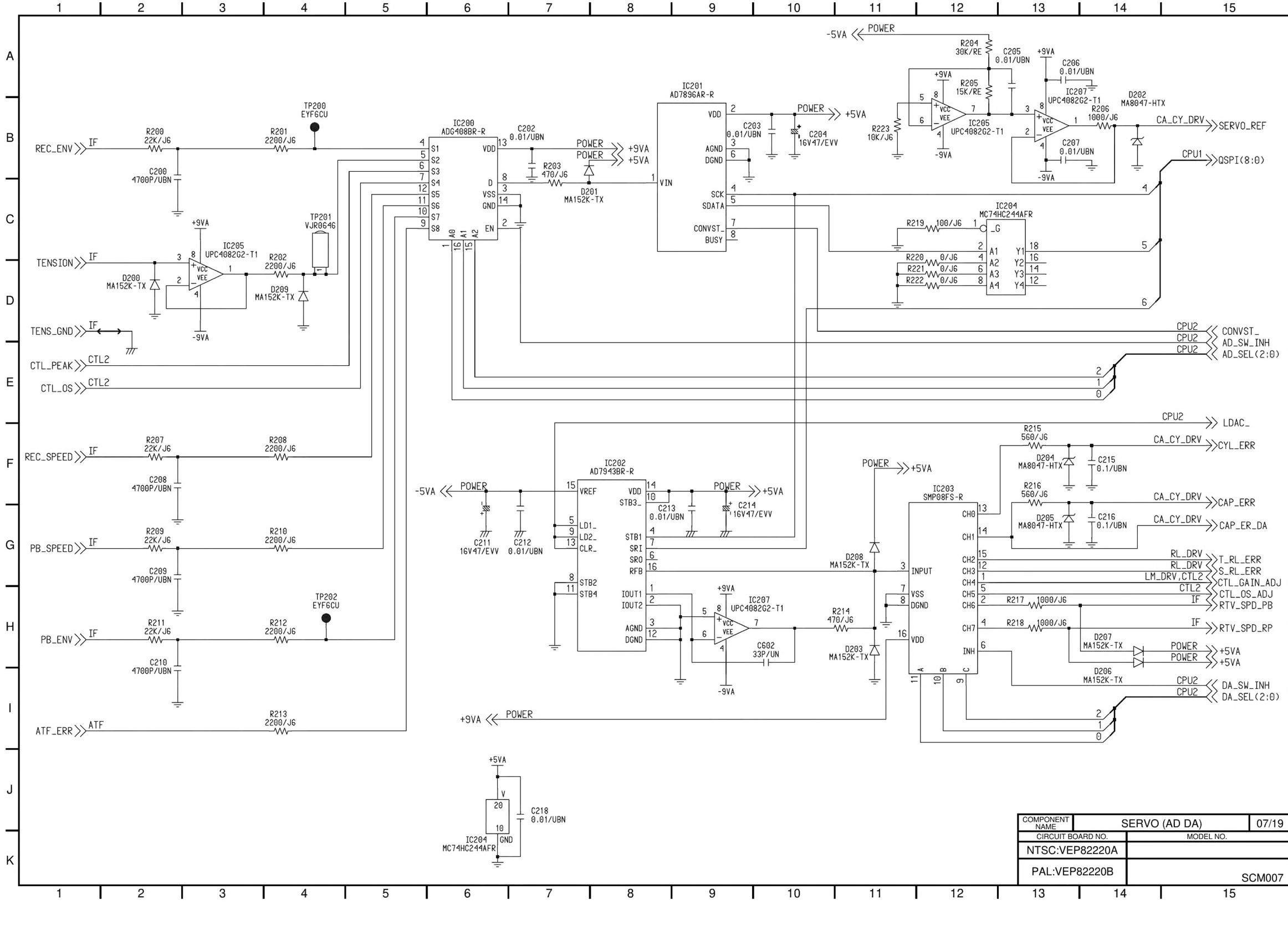


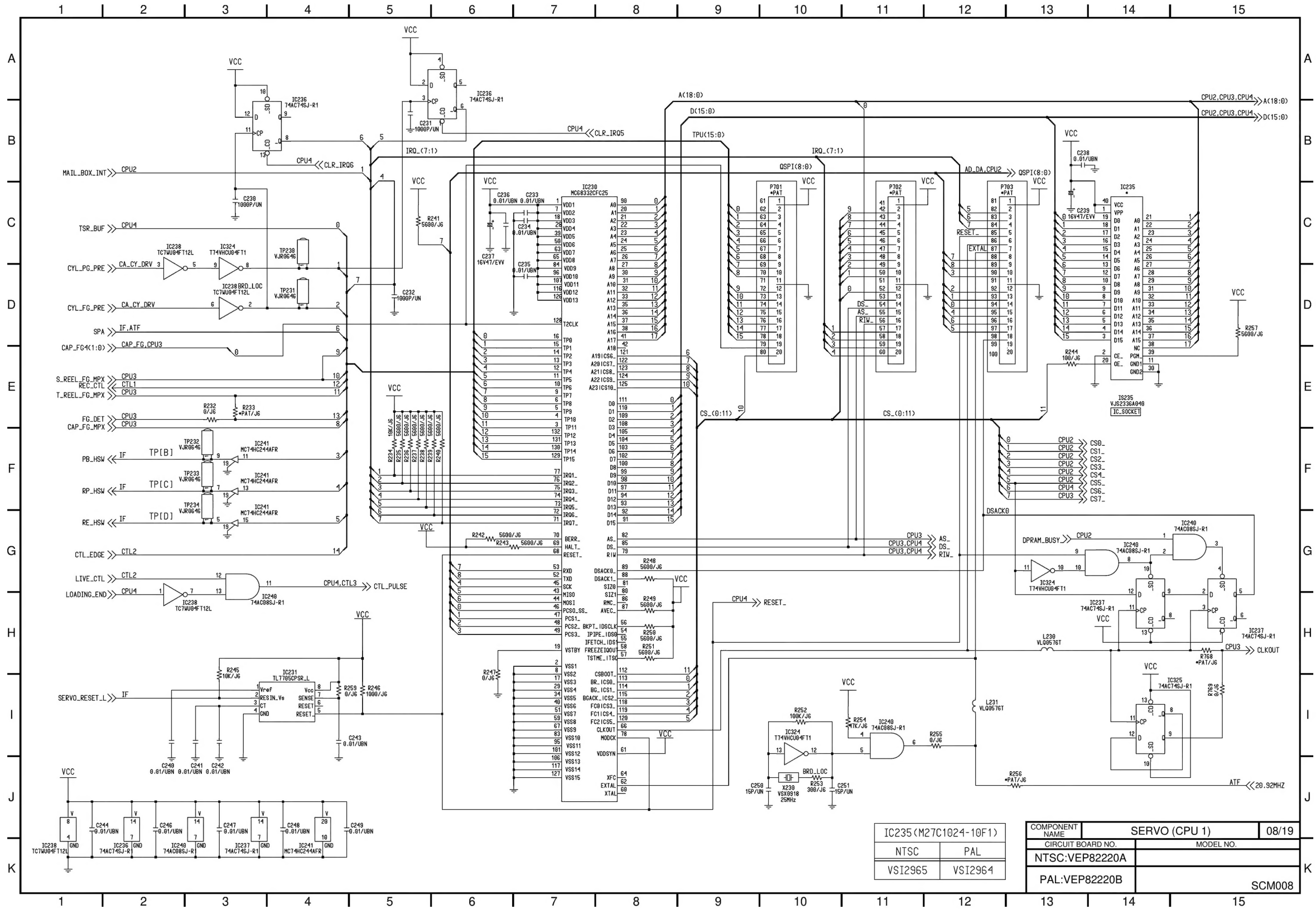
COMPONENT NAME	SERVO (CAP FG)	04/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B		SCM004

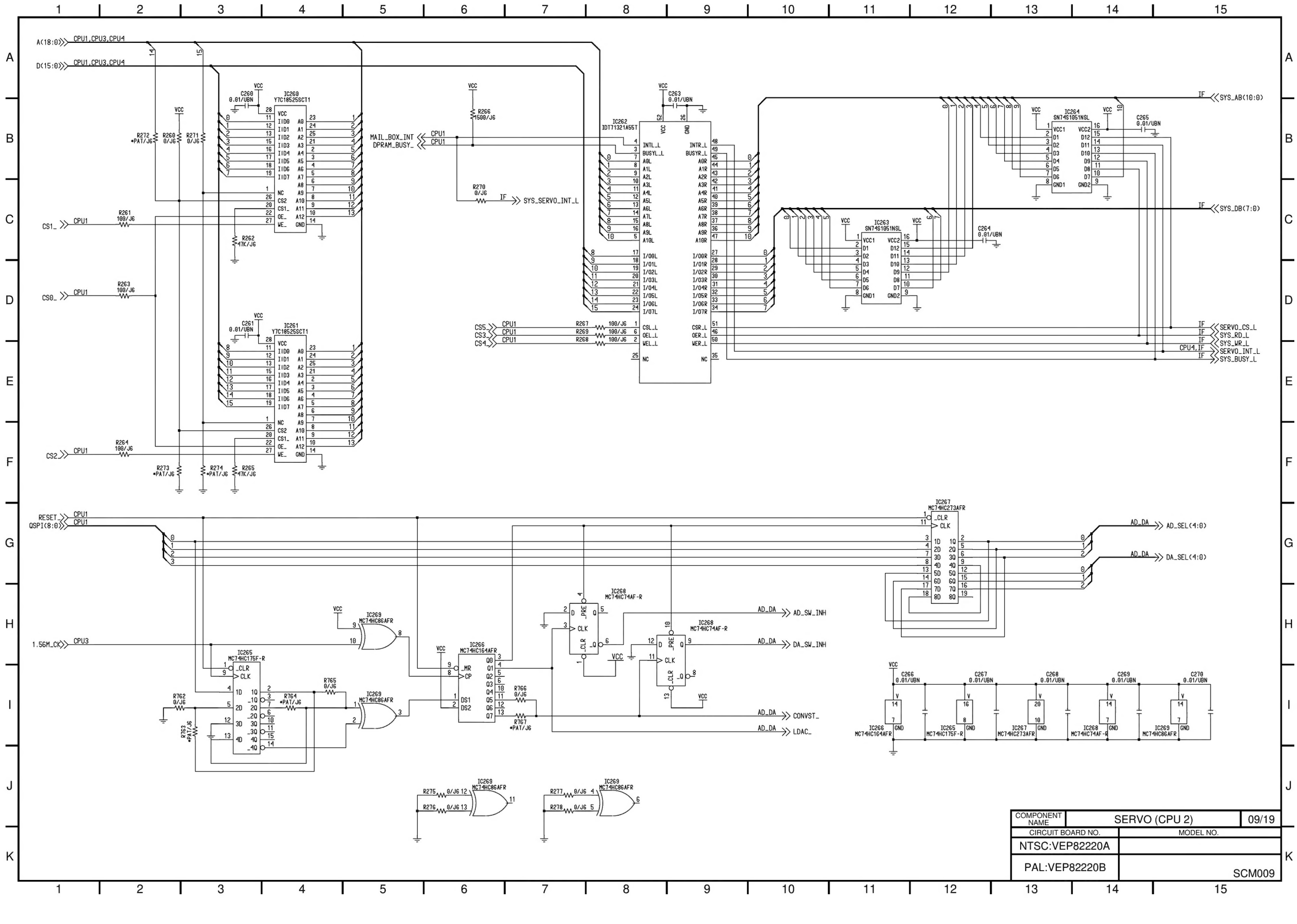

+9VA
POWER
R120 2200/J6
R121 2200/J6
C120 1000P/UN
C121 1000P/UN
C126 0.01/UBN
TP120 VJR0646
D120 MA157-TX
R128 10K/J6
QR120 UN2213-TX
IC120 UPC4741G2-T1
C127 25V33/EVV
RL_VREF
POWER
R122 22K/RE
R123 22K/RE
C123 0.01/UBN
S_FG1_M
IF
R124 10K/J6
R125 470K/J6
C124 10P/UN
C128 25V33/EVV
QR121 UN2113-TX
D121 MA157-TX
R129 10K/J6
R130 220K/RE
C129 0.01/UBN
R131 220K/RE
IC120 UPC4741G2-T1
R134 10K/J6
R135 220K/J6
+9VA
R136 5600/J6
R137 27K/J6
R138 33K/J6
IC160 NJM2901M-T1
IC83 MC74HC4050FR
TP121 VJR0646
CPU3
S_RL_FG4(1:0)
IC121 UPC4741G2-T1
S_FG2_M
IF
R126 10K/J6
R127 470K/J6
C125 10P/UN
R132 150K/J6
R133 150K/J6
R139 2200/J6
R140 2200/J6
C131 1000P/UN
C132 1000P/UN
C130 0.01/UBN
TP122 VJR0646
D122 MA157-TX
R141 10K/J6
QR122 UN2213-TX
C133 25V33/EVV
R143 220K/RE
C135 0.01/UBN
R144 220K/RE
IC121 UPC4741G2-T1
R145 10K/J6
R146 220K/J6
+9VA
R147 5600/J6
R148 27K/J6
R149 33K/J6
IC160 NJM2901M-T1
IC83 MC74HC4050FR
TP123 VJR0646
C134 25V33/EVV
QR123 UN2113-TX
D123 MA157-TX
R142 10K/J6
QR124 UN2213-TX
RL_FG_DISCHG
CPU4
COMPONENT NAME
SERVO (S FG)
05/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM005

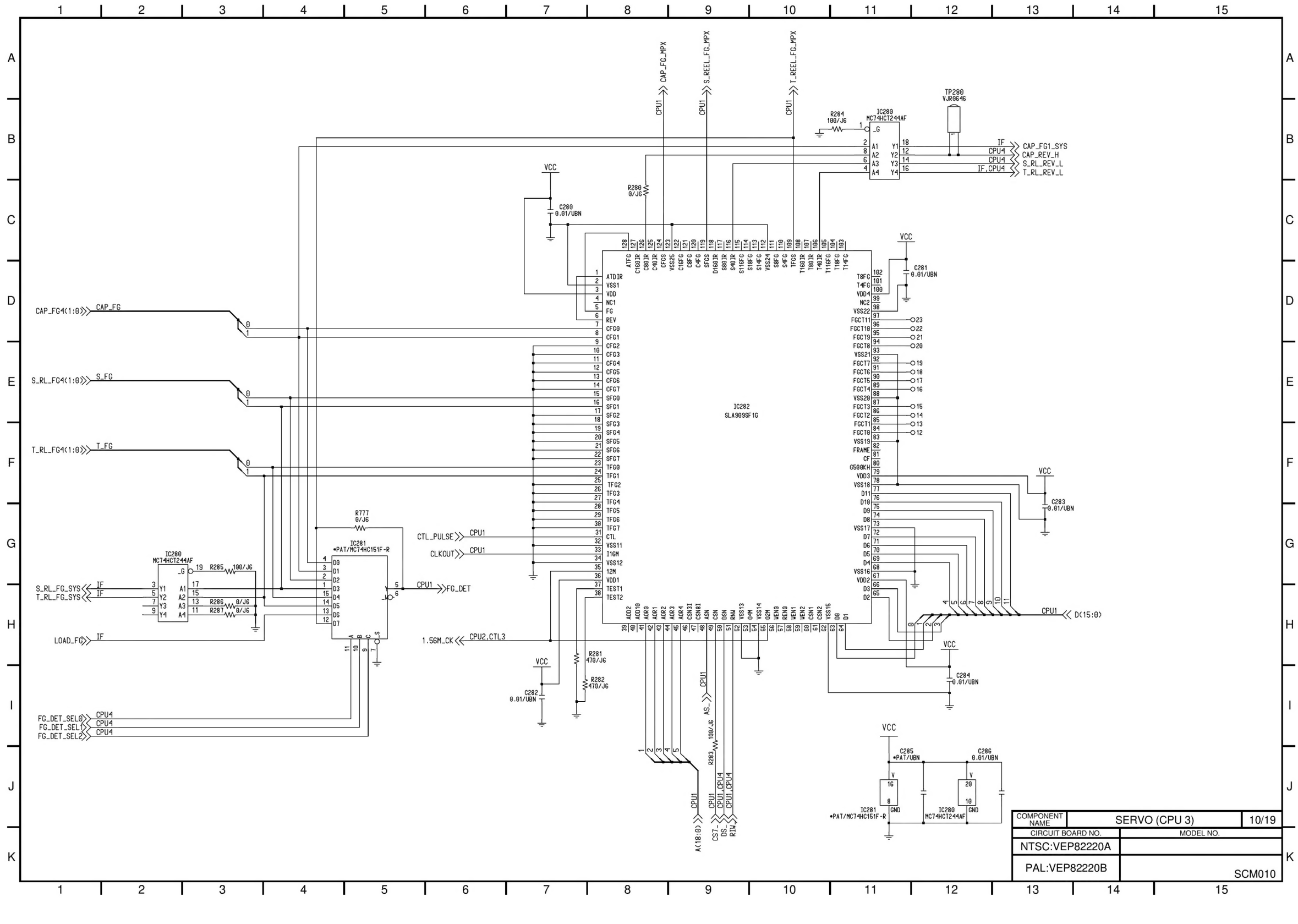


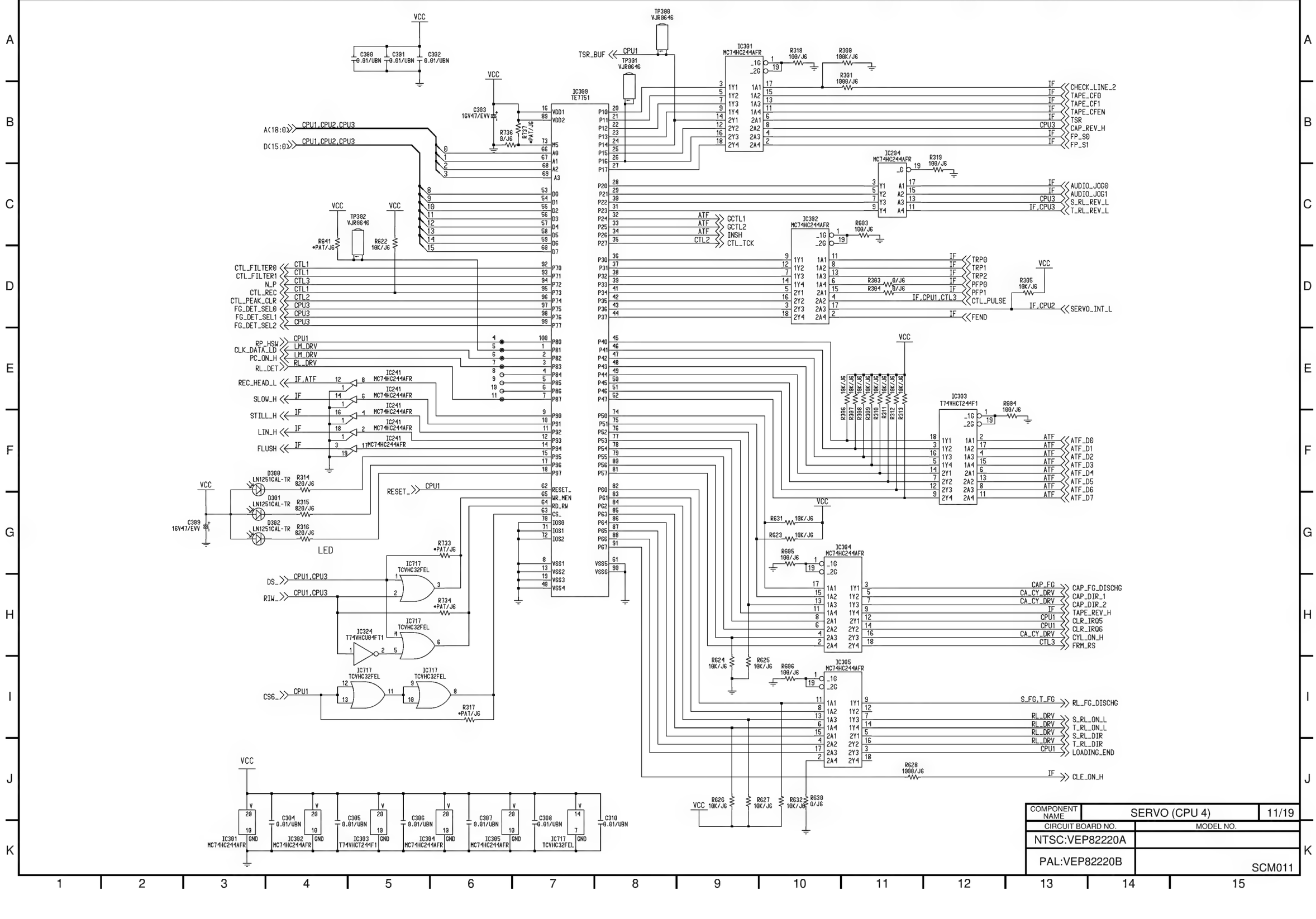
COMPONENT NAME	SERVO (T FG)	06/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B		SCM006

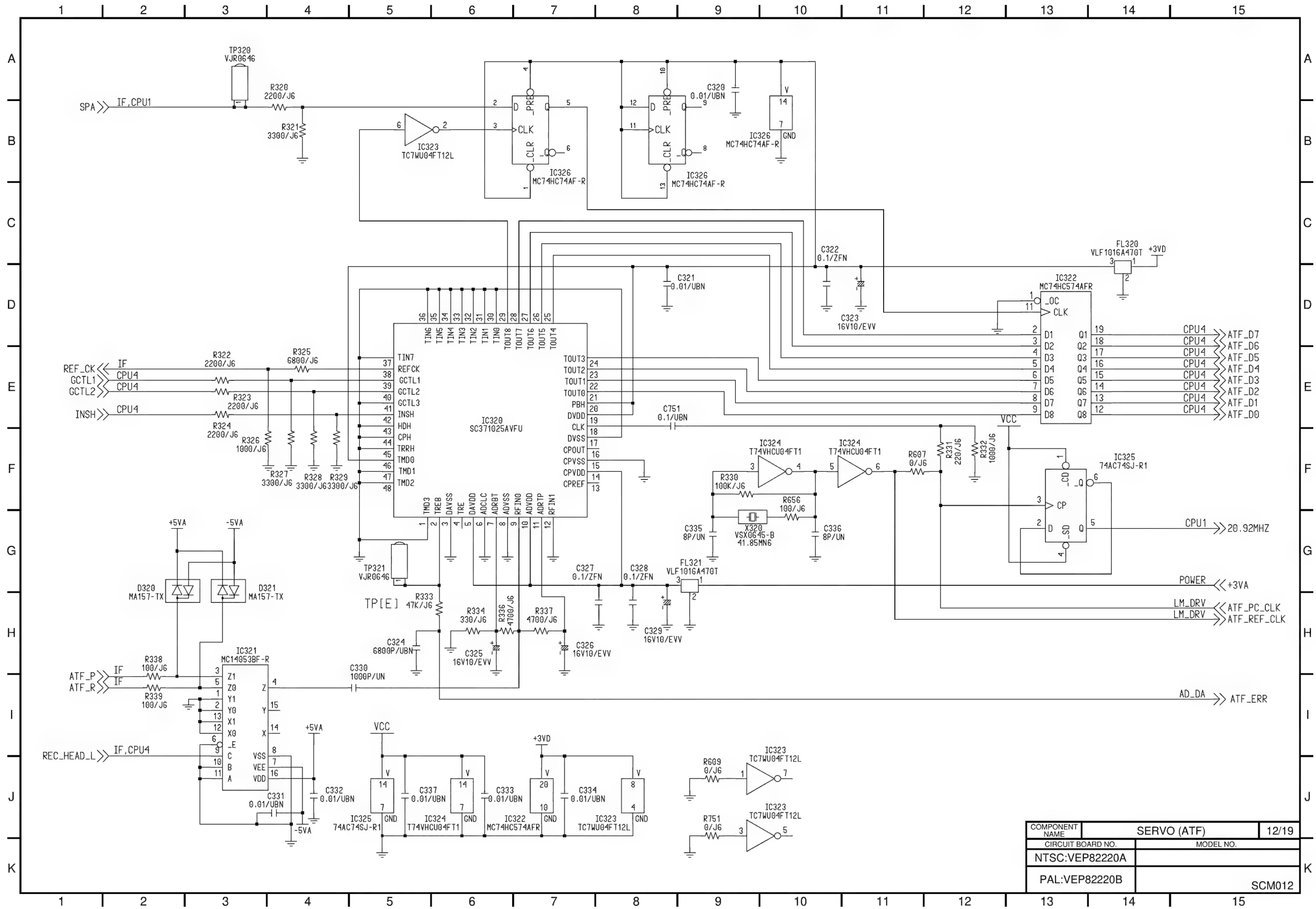

REC_ENV
IF
R200 22K/J6
R201 2200/J6
TP200 EYFGCU
C200 4700P/UBN
IC200 ADG408BR-R
C202 0.01/UBN
R203 470/J6
D201 MA152K-TX
POWER +9VA
POWER +5VA
IC201 AD7896AR-R
C203 0.01/UBN
C204 16V47/EVV
POWER +5VA
-5VA POWER
R204 30K/RE
C205 0.01/UBN
R205 15K/RE
IC205 UPC4082G2-T1
R223 10K/J6
C206 0.01/UBN
IC207 UPC4082G2-T1
R206 1000/J6
D202 MA8047-HTX
CA_CY_DRV
SERVO_REF
C207 0.01/UBN
CPU1
QSPI(8:0)
TENSION
IF
D200 MA152K-TX
IC205 UPC4082G2-T1
R202 2200/J6
TP201 VJR0646
D209 MA152K-TX
IC204 MC74HC244AFR
R219 100/J6
R220 0/J6
R221 0/J6
R222 0/J6
TENS_GND
IF
CTL_PEAK
CTL2
CTL_OS
CTL2
CPU2 CONVST_
CPU2 AD_SW_INH
CPU2 AD_SEL(2:0)
CPU2 LDAC_
REC_SPEED
IF
R207 22K/J6
R208 2200/J6
C208 4700P/UBN
PB_SPEED
IF
R209 22K/J6
R210 2200/J6
C209 4700P/UBN
PB_ENV
IF
R211 22K/J6
R212 2200/J6
C210 4700P/UBN
TP202 EYF6CU
ATF_ERR
ATF
R213 2200/J6
IC202 AD7943BR-R
C211 16V47/EVV
C212 0.01/UBN
C213 0.01/UBN
C214 16V47/EVV
IC207 UPC4082G2-T1
C602 33P/UN
R214 470/J6
D208 MA152K-TX
D203 MA152K-TX
IC203 SMP08FS-R
R215 560/J6
D204 MA8047-HTX
C215 0.1/UBN
CA_CY_DRV CYL_ERR
R216 560/J6
D205 MA8047-HTX
C216 0.1/UBN
CA_CY_DRV CAP_ERR
CA_CY_DRV CAP_ER_DA
RL_DRV T_RL_ERR
RL_DRV S_RL_ERR
LM_DRV,CTL2 CTL_GAIN_ADJ
CTL2 CTL_OS_ADJ
IF RTV_SPD_PB
IF RTV_SPD_RP
R217 1000/J6
R218 1000/J6
D207 MA152K-TX
D206 MA152K-TX
POWER +5VA
POWER +5VA
CPU2 DA_SW_INH
CPU2 DA_SEL(2:0)
+9VA POWER
+5VA
C218 0.01/UBN
IC204 MC74HC244AFR
COMPONENT NAME
SERVO (AD DA)
07/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM007

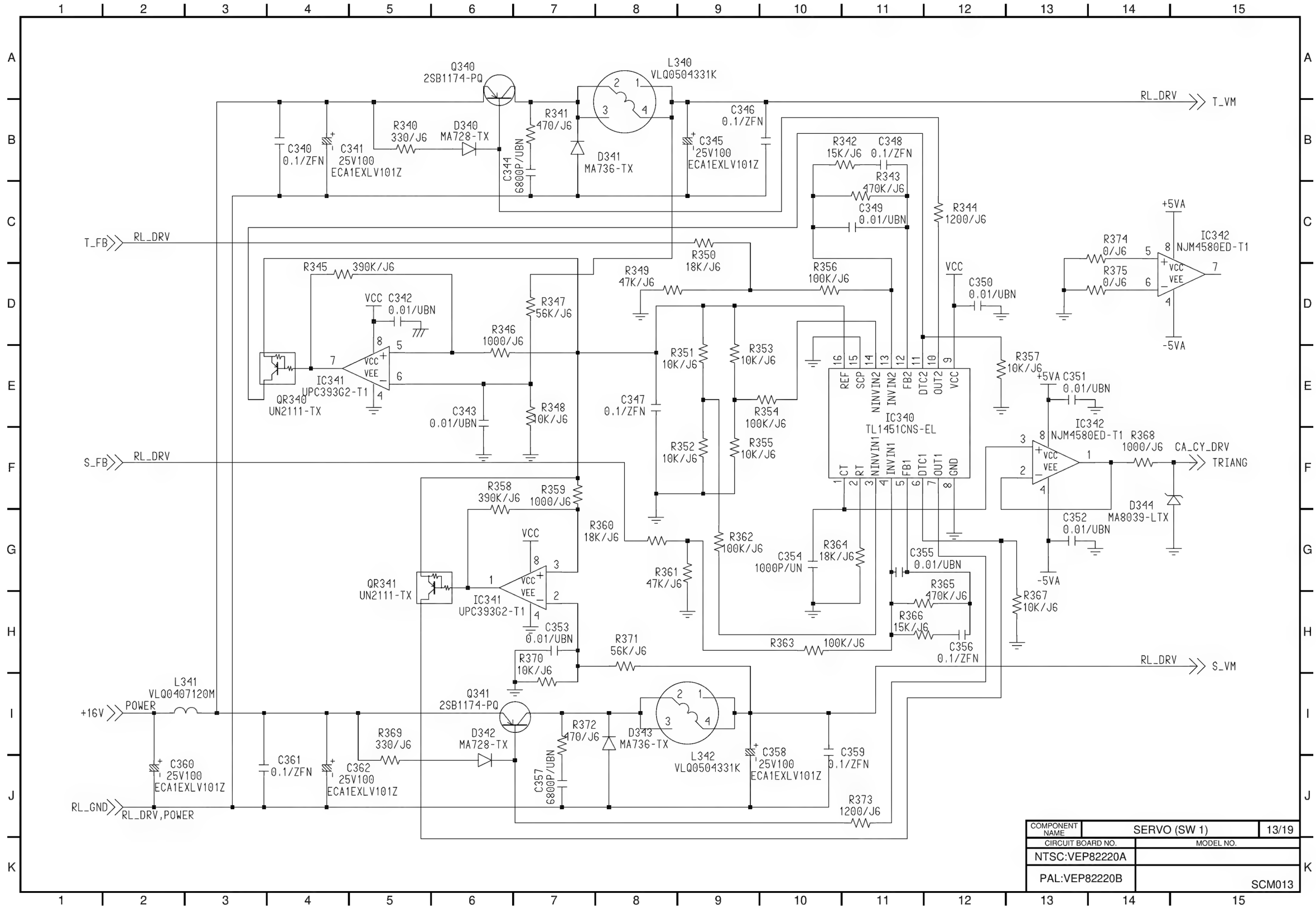

IC235(M27C1024-10F1)
NTSC
PAL
VSI2965
VSI2964
COMPONENT NAME
SERVO (CPU 1)
08/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM008

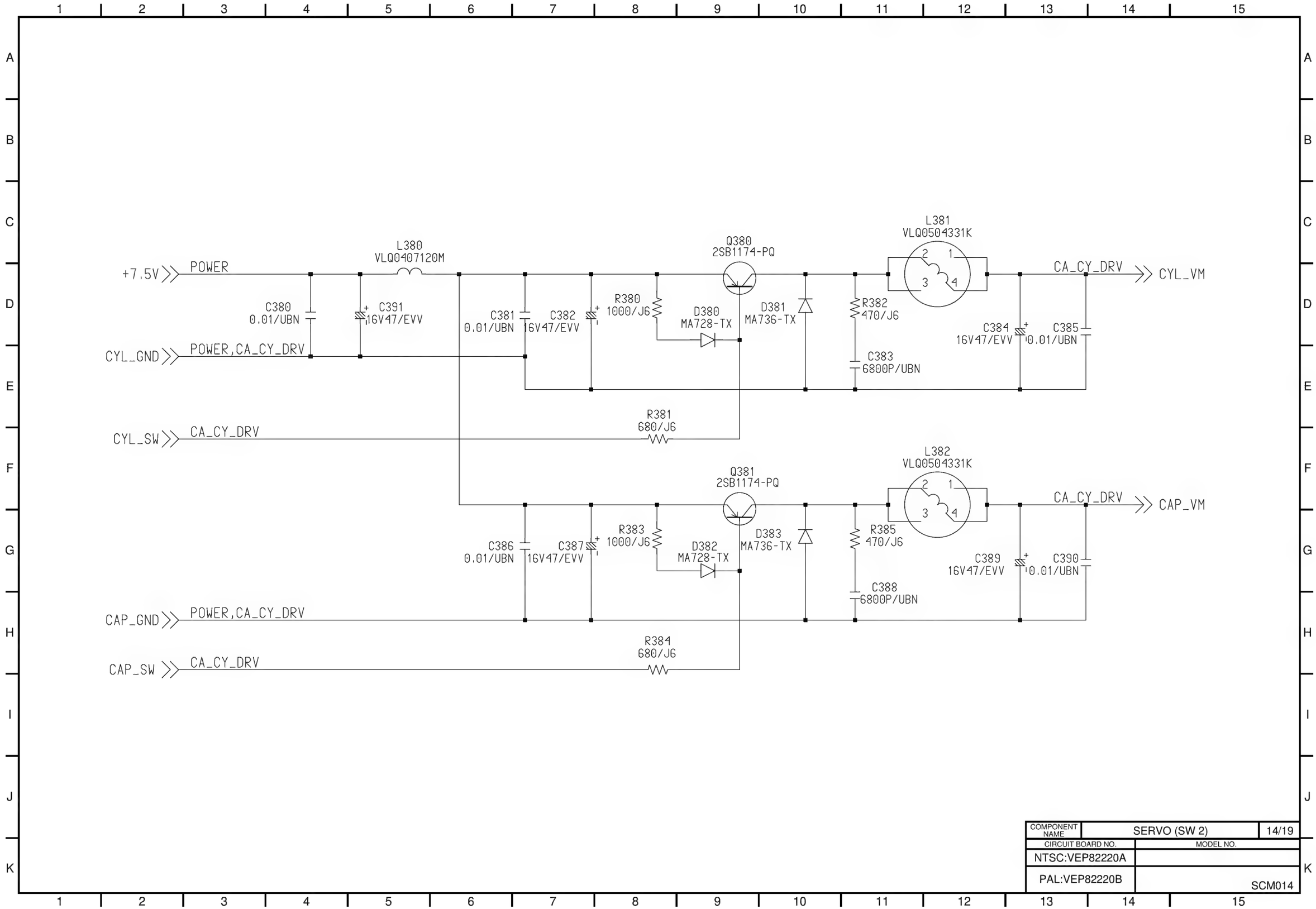

A(18:0) CPU1,CPU3,CPU4
D(15:0) CPU1,CPU3,CPU4
IC260 Y7C1852SSCT1
IC261 Y7C1852SSCT1
C260 0.01/UBN
C261 0.01/UBN
C263 0.01/UBN
C264 0.01/UBN
C265 0.01/UBN
R272 *PAT/J6
R260 0/J6
R271 0/J6
R261 100/J6
R262 47K/J6
R263 100/J6
R264 100/J6
R273 *PAT/J6
R274 *PAT/J6
R265 47K/J6
CS1_ CPU1
CS0_ CPU1
CS2 CPU1
MAIL_BOX_INT CPU1
DPRAM_BUSY_ CPU1
R266 1500/J6
R270 0/J6
IF SYS_SERVO_INT_L
IC262 IDT71321A55T
CS5_ CPU1
CS3_ CPU1
CS4 CPU1
R267 100/J6
R269 100/J6
R268 100/J6
IC263 SN74S1051NSL
IC264 SN74S1051NSL
IF SYS_AB(10:0)
IF SYS_DB(7:0)
IF SERVO_CS_L
IF SYS_RD_L
IF SYS_WR_L
CPU4,IF SERVO_INT_L
IF SYS_BUSY_L
RESET_ CPU1
QSPI(8:0) CPU1
IC267 MC74HC273AFR
AD_DA AD_SEL(1:0)
AD_DA DA_SEL(1:0)
1.56M_CK CPU3
IC265 MC74HC175F-R
IC266 MC74HC164AFR
IC268 MC74HC74AF-R
IC269 MC74HC86AFR
R762 0/J6
R763 *PAT/J6
R764 *PAT/J6
R765 0/J6
R766 0/J6
R767 *PAT/J6
AD_DA AD_SW_INH
AD_DA DA_SW_INH
AD_DA CONVST_
AD_DA LDAC_
R275 0/J6
R276 0/J6
R277 0/J6
R278 0/J6
C266 0.01/UBN
C267 0.01/UBN
C268 0.01/UBN
C269 0.01/UBN
C270 0.01/UBN
COMPONENT NAME
SERVO (CPU 2)
09/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM009


CAP_FG_MPX
S_REEL_FG_MPX
T_REEL_FG_MPX
CPU1
TP280
VJR0646
R284
100/J6
IC280
MC74HCT244AF
IF
CAP_FG1_SYS
CAP_REV_H
S_RL_REV_L
T_RL_REV_L
CPU4
IF,CPU4
VCC
R280
0/J6
C280
0.01/UBN
IC282
SLA909SF1G
C281
0.01/UBN
C283
0.01/UBN
C284
0.01/UBN
C285
*PAT/UBN
C286
0.01/UBN
CAP_FG4(1:0)
CAP_FG
S_RL_FG4(1:0)
S_FG
T_RL_FG4(1:0)
T_FG
R777
0/J6
IC281
*PAT/MC74HC151F-R
R285
100/J6
R286
0/J6
R287
0/J6
S_RL_FG_SYS
T_RL_FG_SYS
IF
LOAD_FG
FG_DET_SEL0
FG_DET_SEL1
FG_DET_SEL2
CTL_PULSE
CLKOUT
FG_DET
1.56M_CK
CPU2,CTL3
R281
470/J6
R282
470/J6
C282
0.01/UBN
R283
100/J6
A(18:0)
D(15:0)
CS7_
DS_
RW
GND
COMPONENT NAME
SERVO (CPU 3)
10/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM010

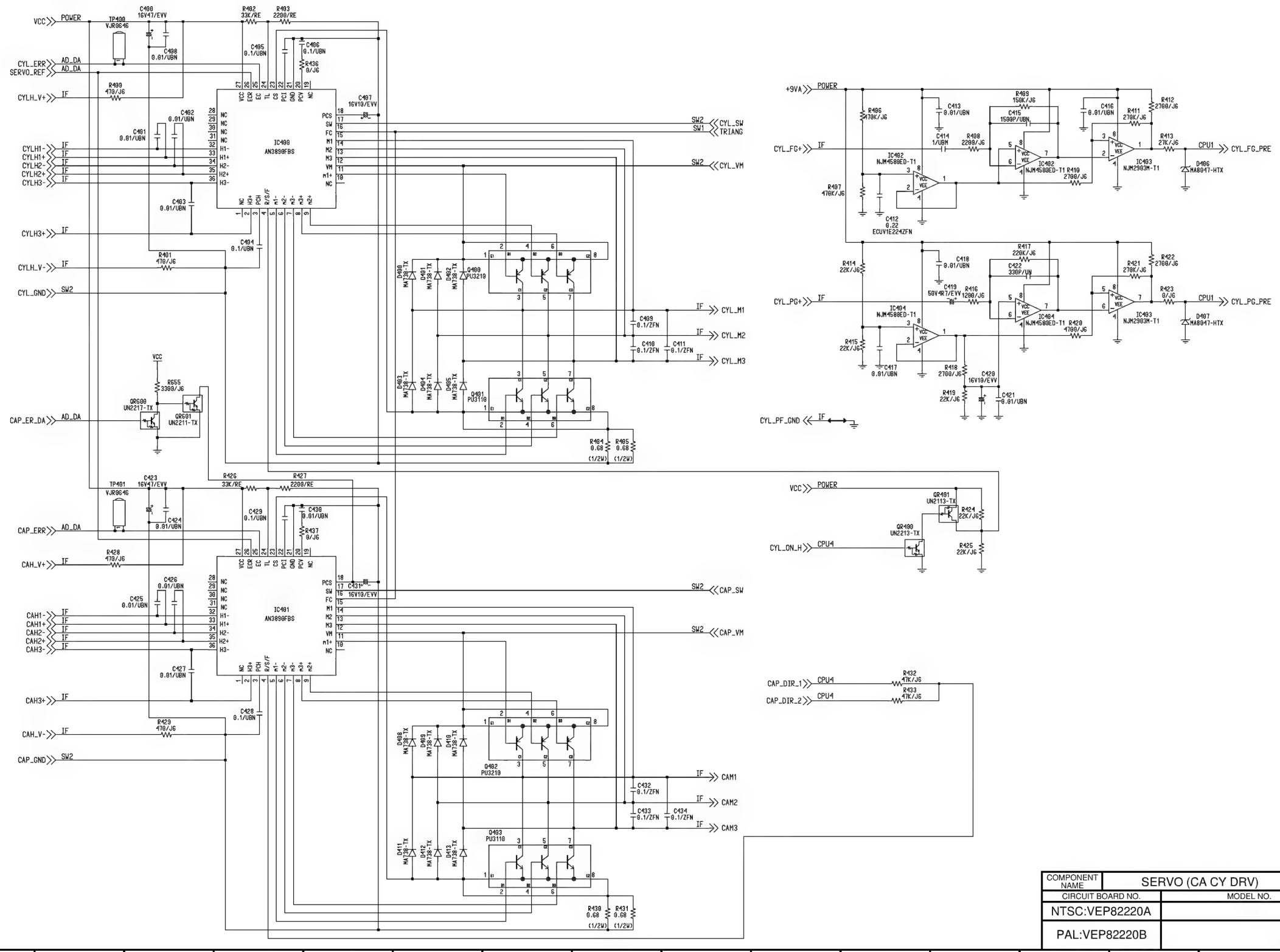

IC300 TE7751
IC301 MC74HC244AFR
IC302 MC74HC244AFR
IC303 T74VHCT244F1
IC304 MC74HC244AFR
IC305 MC74HC244AFR
IC241 MC74HC244AFR
IC324 T74VHCU04FT1
IC717 TCVHC32FEL
TP300 VJR0646
TP301 VJR0646
TP302 VJR0646
TSR_BUF
A(18:0)
D(15:0)
CPU1,CPU2,CPU3
CTL_FILTER0
CTL_FILTER1
N_P
CTL_REC
CTL_PEAK_CLR
FG_DET_SEL0
FG_DET_SEL1
FG_DET_SEL2
RP_HSW
CLK_DATA_LD
PC_ON_H
RL_DET
REC_HEAD_L
SLOW_H
STILL_H
LIN_H
FLUSH
LED
RESET_
DS_
RW_
CS6_
GCTL1
GCTL2
INSH
CTL_TCK
CHECK_LINE_2
TAPE_CF0
TAPE_CF1
TAPE_CFEN
TSR
CAP_REV_H
FP_S0
FP_S1
AUDIO_JOG0
AUDIO_JOG1
S_RL_REV_L
T_RL_REV_L
TRP0
TRP1
TRP2
PFP0
PFP1
CTL_PULSE
SERVO_INT_L
FEND
ATF_D0
ATF_D1
ATF_D2
ATF_D3
ATF_D4
ATF_D5
ATF_D6
ATF_D7
CAP_FG_DISCHG
CAP_DIR_1
CAP_DIR_2
TAPE_REV_H
CLR_IRQ5
CLR_IRQ6
CYL_ON_H
FRM_RS
RL_FG_DISCHG
S_RL_ON_L
T_RL_ON_L
S_RL_DIR
T_RL_DIR
LOADING_END
CLE_ON_H
VCC
C300 0.01/UBN
C301 0.01/UBN
C302 0.01/UBN
C303 16V47/EVV
C309 16V47/EVV
C304 0.01/UBN
C305 0.01/UBN
C306 0.01/UBN
C307 0.01/UBN
C308 0.01/UBN
C310 0.01/UBN
D300 LN1251CAL-TR
D301 LN1251CAL-TR
D302 LN1251CAL-TR
R300 100K/J6
R301 100/J6
R303 0/J6
R304 0/J6
R305 10K/J6
R318 100/J6
R319 100/J6
R603 100/J6
R604 100/J6
R605 100/J6
R606 100/J6
R628 100/J6
R314 820/J6
R315 820/J6
R316 820/J6
R317 *PAT/J6
R733 *PAT/J6
R734 *PAT/J6
R736 0/J6
R737 *PAT/J6
R641 *PAT/J6
R622 10K/J6
R623 10K/J6
R624 10K/J6
R625 10K/J6
R626 10K/J6
R627 10K/J6
R632 10K/J6
R630 0/J6
R631 10K/J6
R306 10K/J6
R307 10K/J6
R308 10K/J6
R309 10K/J6
R310 10K/J6
R311 10K/J6
R312 10K/J6
R313 10K/J6
COMPONENT NAME
SERVO (CPU 4)
11/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM011


TP320
VJR0646
R320
2200/J6
SPA
IF,CPU1
R321
3300/J6
IC323
TC7WU04FT12L
IC326
MC74HC74AF-R
C320
0.01/UBN
IC326
MC74HC74AF-R
IC326
MC74HC74AF-R
GND
C322
0.1/ZFN
C323
16V10/EVV
C321
0.01/UBN
FL320
VLF1016A470T
+3VD
IC322
MC74HC574AFR
_OC
CLK
D1
D2
D3
D4
D5
D6
D7
D8
Q1
Q2
Q3
Q4
Q5
Q6
Q7
Q8
CPU4
ATF_D7
ATF_D6
ATF_D5
ATF_D4
ATF_D3
ATF_D2
ATF_D1
ATF_D0
REF_CK
GCTL1
GCTL2
INSH
IF
CPU4
R322
2200/J6
R323
2200/J6
R324
2200/J6
R325
6800/J6
R326
1000/J6
R327
3300/J6
R328
3300/J6
R329
3300/J6
IC320
SC371025AVFU
TIN7
REFCK
GCTL1
GCTL2
GCTL3
INSH
HDH
CPH
TRRH
TMD0
TMD1
TMD2
TOUT3
TOUT2
TOUT1
TOUT0
PBH
DVDD
CLK
DVSS
CPOUT
CPVSS
CPVDD
CPREF
TIN6
TIN5
TIN4
TIN3
TIN2
TIN1
TIN0
TOUT8
TOUT7
TOUT6
TOUT5
TOUT4
TMD3
TREB
DAVSS
TRE
DAVDD
ADCLC
ADRBT
ADVSS
RFIN0
ADVDD
ADRTP
RFIN1
C751
0.1/UBN
VCC
IC324
T74VHCU04FT1
IC324
T74VHCU04FT1
R330
100K/J6
R656
100/J6
X320
VSX0645-B
41.85MN6
C335
8P/UN
C336
8P/UN
R607
0/J6
R331
220/J6
R332
1000/J6
IC325
74AC74SJ-R1
CP
_CD
_SD
CPU1
20.92MHZ
TP321
VJR0646
TP[E]
R333
47K/J6
C324
6800P/UBN
R334
330/J6
R336
4700/J6
R337
4700/J6
C325
16V10/EVV
C326
16V10/EVV
C327
0.1/ZFN
C328
0.1/ZFN
FL321
VLF1016A470T
C329
16V10/EVV
POWER
+3VA
LM_DRV
ATF_PC_CLK
LM_DRV
ATF_REF_CLK
AD_DA
ATF_ERR
+5VA
-5VA
D320
MA157-TX
D321
MA157-TX
IC321
MC14053BF-R
ATF_P
ATF_R
IF
IF
R338
100/J6
R339
100/J6
C330
1000P/UN
REC_HEAD_L
IF,CPU4
C332
0.01/UBN
C331
0.01/UBN
C337
0.01/UBN
C333
0.01/UBN
C334
0.01/UBN
IC325
74AC74SJ-R1
IC324
T74VHCU04FT1
IC322
MC74HC574AFR
IC323
TC7WU04FT12L
GND
R609
0/J6
R751
0/J6
IC323
TC7WU04FT12L
COMPONENT NAME
SERVO (ATF)
12/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM012

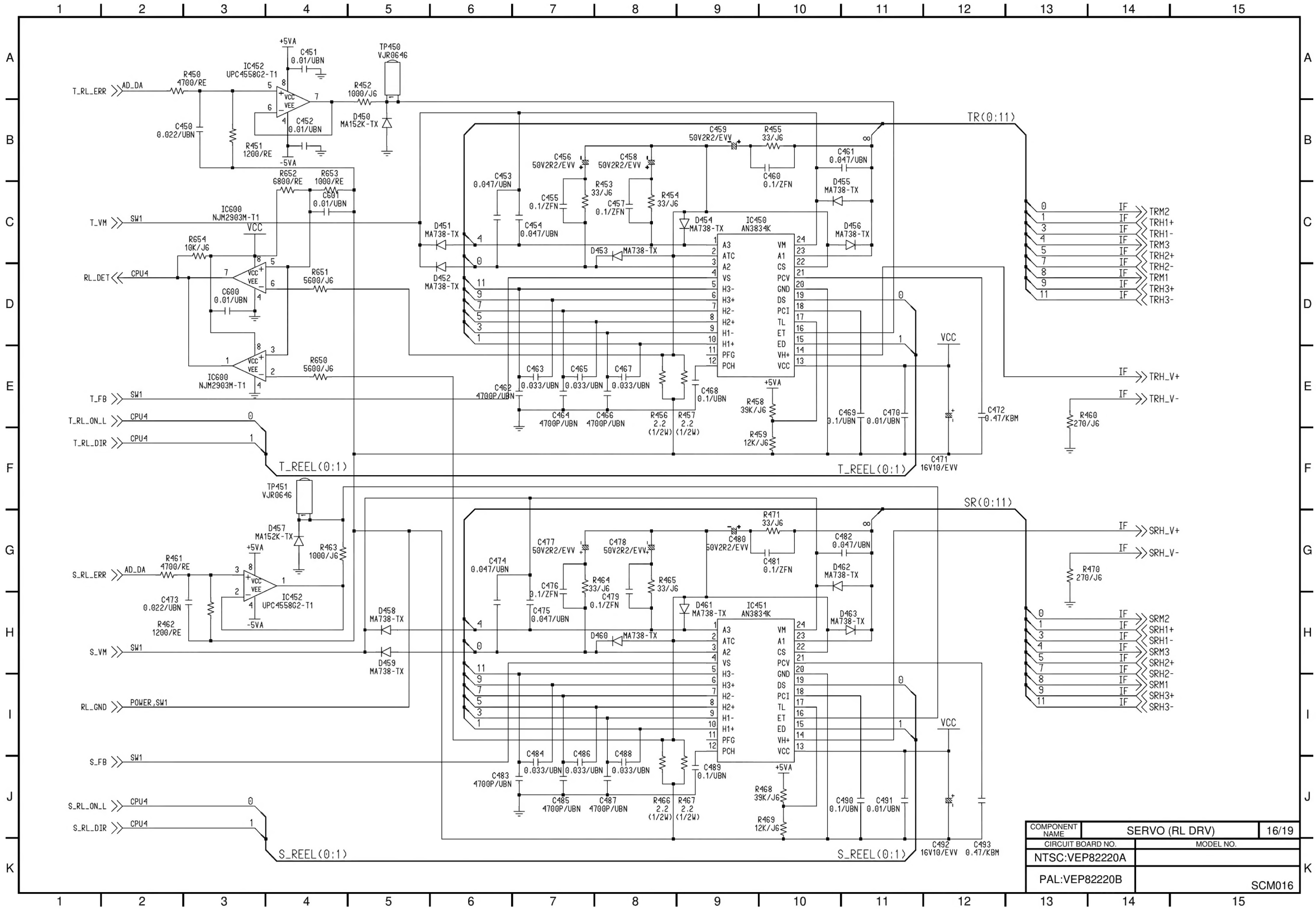

Q340
2SB1174-PQ
L340
VLQ0504331K
RL_DRV
T_VM
C340
0.1/ZFN
C341
25V100
ECA1EXLV101Z
R340
330/J6
D340
MA728-TX
C344
6800P/UBN
R341
470/J6
D341
MA736-TX
C345
25V100
ECA1EXLV101Z
C346
0.1/ZFN
R342
15K/J6
C348
0.1/ZFN
R343
470K/J6
C349
0.01/UBN
R344
1200/J6
T_FB
RL_DRV
R350
18K/J6
R345
390K/J6
R349
47K/J6
R356
100K/J6
VCC
C350
0.01/UBN
+5VA
R374
0/J6
R375
0/J6
IC342
NJM4580ED-T1
-5VA
VCC C342
0.01/UBN
R347
56K/J6
R346
1000/J6
IC341
UPC393G2-T1
QR340
UN2111-TX
C343
0.01/UBN
R348
10K/J6
R351
10K/J6
R353
10K/J6
C347
0.1/ZFN
R354
100K/J6
R352
10K/J6
R355
10K/J6
IC340
TL1451CNS-EL
R357
10K/J6
+5VA C351
0.01/UBN
IC342
NJM4580ED-T1
R368
1000/J6
CA_CY_DRV
TRIANG
D344
MA8039-LTX
C352
0.01/UBN
-5VA
S_FB
RL_DRV
R358
390K/J6
R359
1000/J6
R360
18K/J6
R362
100K/J6
C354
1000P/UN
R364
18K/J6
C355
0.01/UBN
R365
470K/J6
R366
15K/J6
C356
0.1/ZFN
R367
10K/J6
VCC
QR341
UN2111-TX
IC341
UPC393G2-T1
C353
0.01/UBN
R361
47K/J6
R363
100K/J6
R371
56K/J6
R370
10K/J6
RL_DRV
S_VM
L341
VLQ0407120M
+16V
POWER
Q341
2SB1174-PQ
R369
330/J6
D342
MA728-TX
R372
470/J6
D343
MA736-TX
L342
VLQ0504331K
C358
25V100
ECA1EXLV101Z
C359
0.1/ZFN
C360
25V100
ECA1EXLV101Z
C361
0.1/ZFN
C362
25V100
ECA1EXLV101Z
C357
6800P/UBN
R373
1200/J6
RL_GND
RL_DRV,POWER
COMPONENT NAME
SERVO (SW 1)
13/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM013

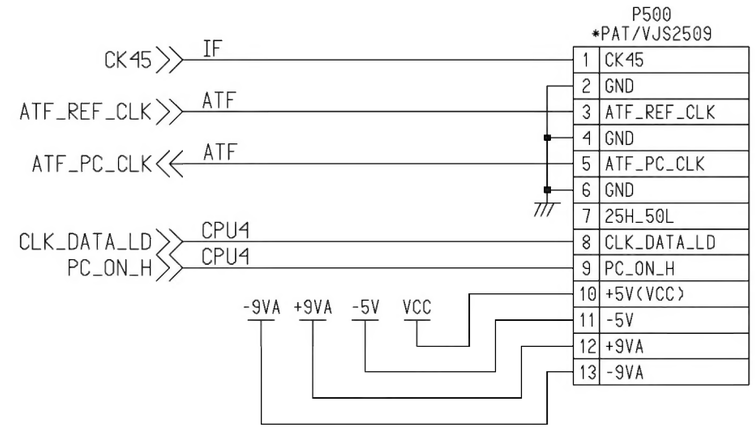


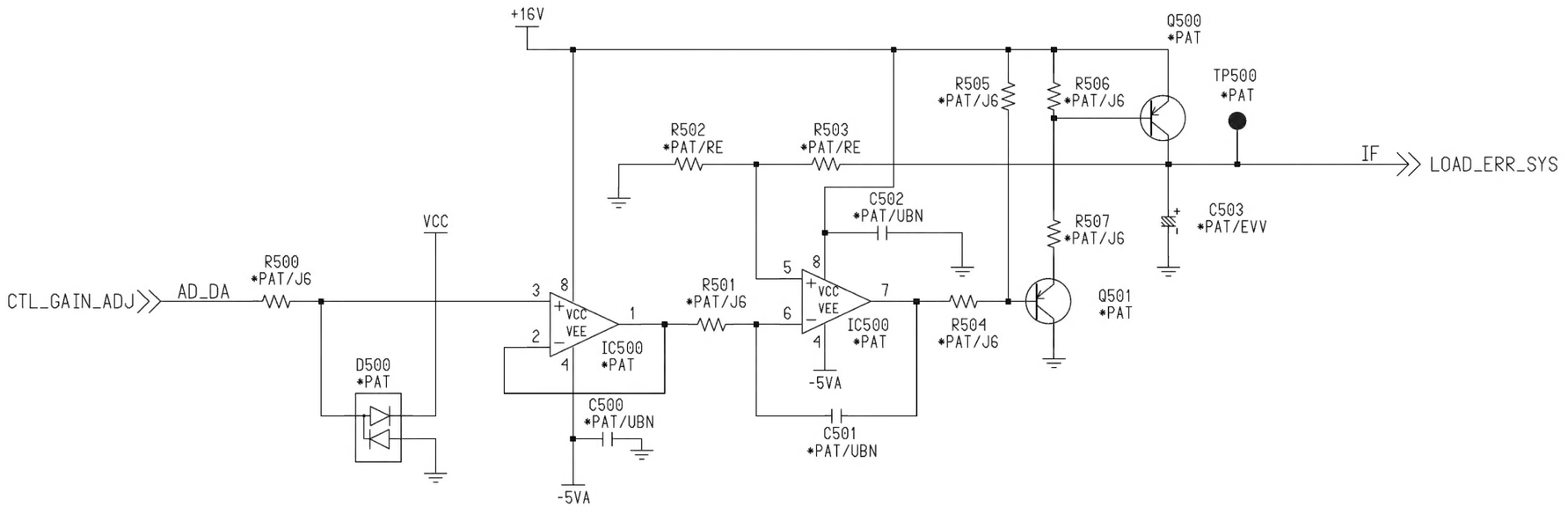
COMPONENT NAME	SERVO (SW 2)	14/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B		SCM014



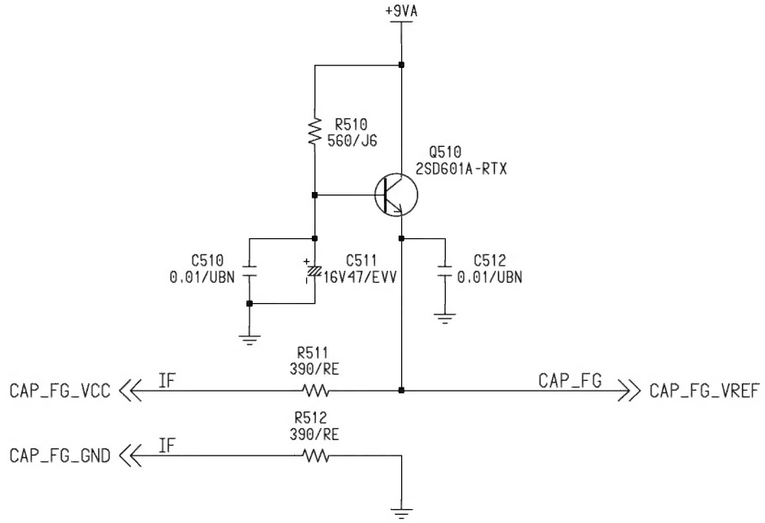
COMPONENT NAME	SERVO (CA CY DRV)	15/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B		SCM015

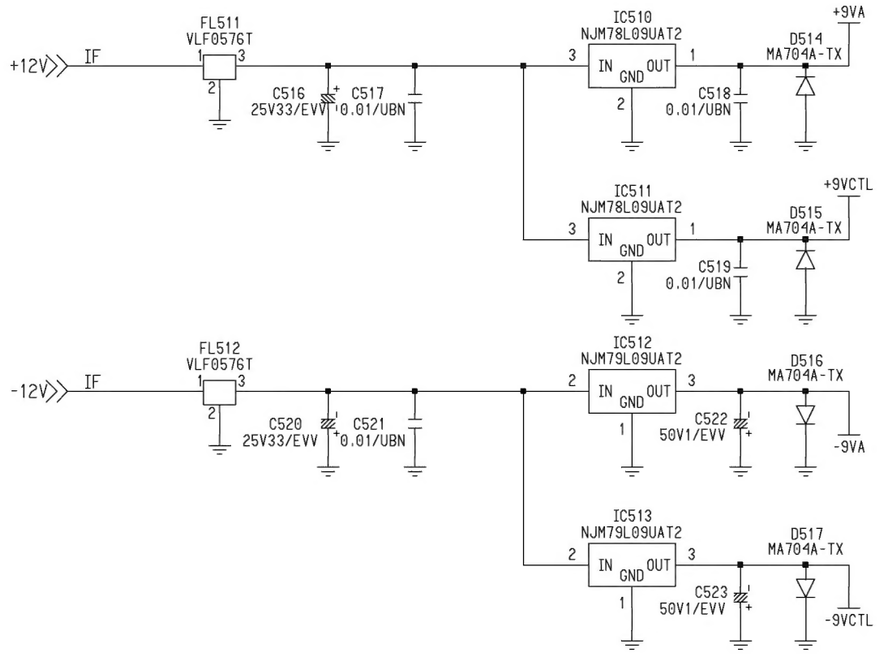

+5VA
C451 0.01/UBN
TP450 VJR0646
IC452 UPC4558G2-T1
R450 4700/RE
T_RL_ERR
AD_DA
R452 1000/J6
D450 MA152K-TX
C450 0.022/UBN
C452 0.01/UBN
R451 1200/RE
-5VA
TR(0;11)
C459 50V2R2/EVV
R455 33/J6
C456 50V2R2/EVV
C458 50V2R2/EVV
C460 0.1/ZFN
C461 0.047/UBN
D455 MA738-TX
R452 6800/RE
R653 1000/RE
C601 0.01/UBN
C453 0.047/UBN
C455 0.1/ZFN
R453 33/J6
C457 0.1/ZFN
R454 33/J6
C454 0.047/UBN
D454 MA738-TX
IC450 AN3834K
D456 MA738-TX
T_VM
SW1
IC600 NJM2903M-T1
VCC
R654 10K/J6
RL_DET
CPU4
R651 5600/J6
C600 0.01/UBN
D451 MA738-TX
D452 MA738-TX
D453 MA738-TX
A3 ATC A2 VS H3- H3+ H2- H2+ H1- H1+ PFG PCH
VM A1 CS PCV GND DS PCI TL ET ED VH+ VCC
R650 5600/J6
IC600 NJM2903M-T1
C463 0.033/UBN
C465 0.033/UBN
C467 0.033/UBN
C462 4700P/UBN
C468 0.1/UBN
+5VA
R458 39K/J6
R459 12K/J6
C469 0.1/UBN
C470 0.01/UBN
C472 0.47/KBM
C471 16V10/EVV
T_FB
T_RL_ON_L
T_RL_DIR
CPU4
T_REEL(0;1)
C464 4700P/UBN
C466 4700P/UBN
R456 2.2 (1/2W)
R457 2.2 (1/2W)
0 1 3 4 5 7 8 9 11
IF TRM2 IF TRH1+ IF TRH1- IF TRM3 IF TRH2+ IF TRH2- IF TRM1 IF TRH3+ IF TRH3-
IF TRH_V+
IF TRH_V-
R460 270/J6
SR(0;11)
TP451 VJR0646
D457 MA152K-TX
R463 1000/J6
C477 50V2R2/EVV
C478 50V2R2/EVV
C480 50V2R2/EVV
R471 33/J6
C481 0.1/ZFN
C482 0.047/UBN
D462 MA738-TX
C474 0.047/UBN
C476 0.1/ZFN
R464 33/J6
C479 0.1/ZFN
R465 33/J6
C475 0.047/UBN
D461 MA738-TX
IC451 AN3834K
D463 MA738-TX
S_RL_ERR
AD_DA
R461 4700/RE
C473 0.022/UBN
R462 1200/RE
IC452 UPC4558G2-T1
D458 MA738-TX
D459 MA738-TX
D460 MA738-TX
S_VM
SW1
RL_GND
POWER,SW1
S_FB
S_RL_ON_L
S_RL_DIR
CPU4
S_REEL(0;1)
C484 0.033/UBN
C486 0.033/UBN
C488 0.033/UBN
C483 4700P/UBN
C489 0.1/UBN
C485 4700P/UBN
C487 4700P/UBN
R466 2.2 (1/2W)
R467 2.2 (1/2W)
R468 39K/J6
R469 12K/J6
C490 0.1/UBN
C491 0.01/UBN
C492 16V10/EVV
C493 0.47/KBM
0 1 3 4 5 7 8 9 11
IF SRM2 IF SRH1+ IF SRH1- IF SRM3 IF SRH2+ IF SRH2- IF SRM1 IF SRH3+ IF SRH3-
IF SRH_V+
IF SRH_V-
R470 270/J6
COMPONENT NAME
SERVO (RL DRV)
16/19
CIRCUIT BOARD NO.
MODEL NO.
NTSC:VEP82220A
PAL:VEP82220B
SCM016

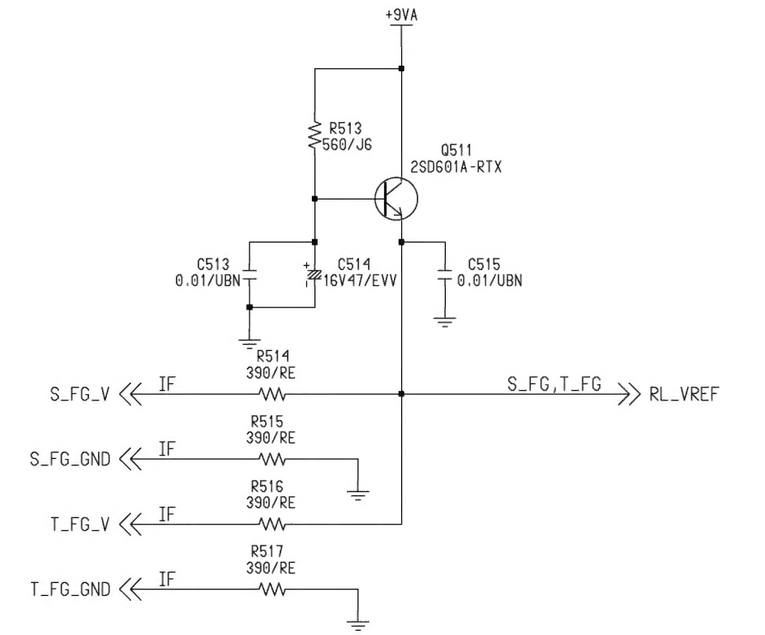


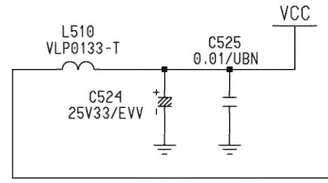


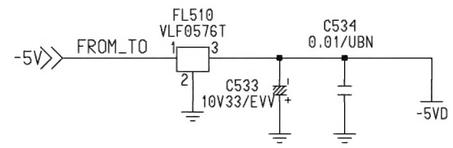
COMPONENT NAME	SERVO (LM DRV)	17/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B		SCM017

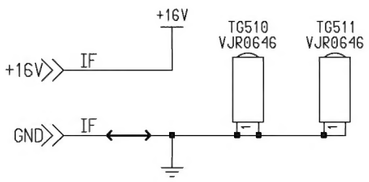


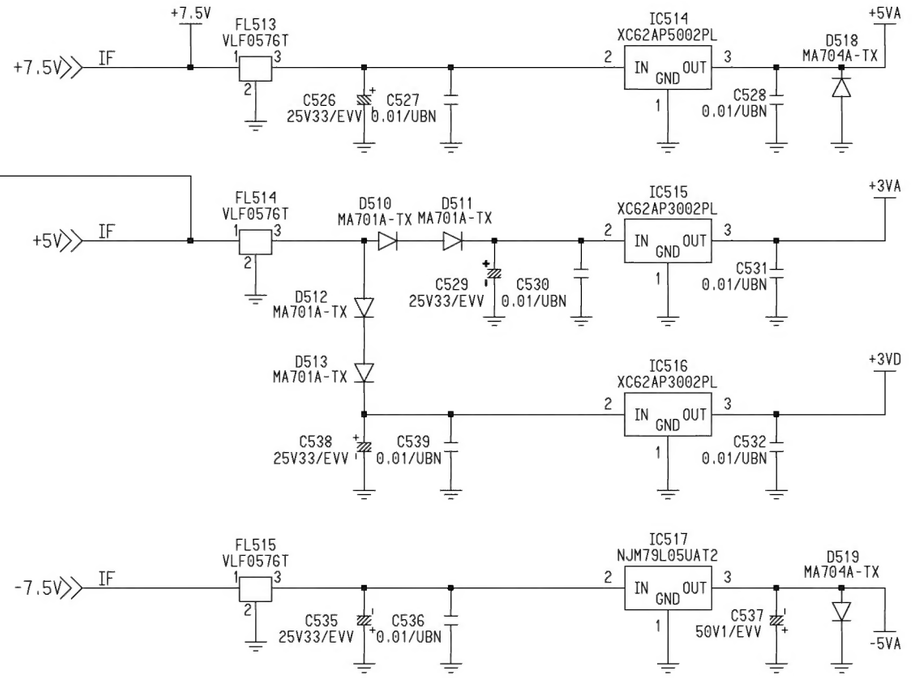


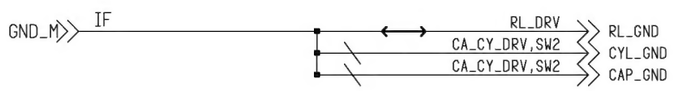




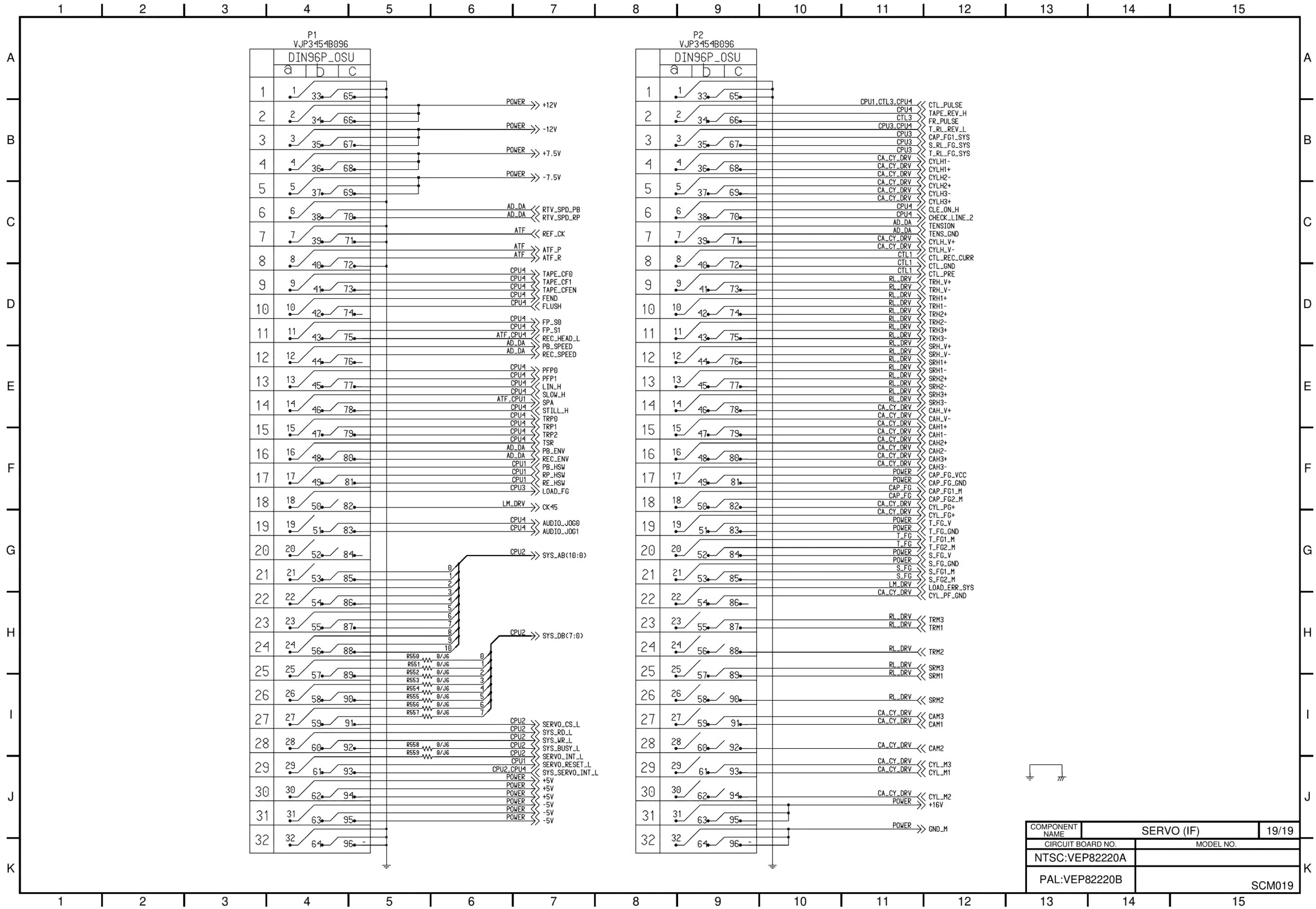








COMPONENT NAME	SERVO (POWER)	18/19
CIRCUIT BOARD NO.	MODEL NO.	
NTSC:VEP82220A		
PAL:VEP82220B	SCM018	



COMPONENT NAME	SERVO (IF)	19/19
CIRCUIT BOARD NO.		MODEL NO.
NTSC:VEP82220A		
PAL:VEP82220B		SCM019